

## SCOUR ANALYSIS

Pier Scour

All piers have the same scour depth

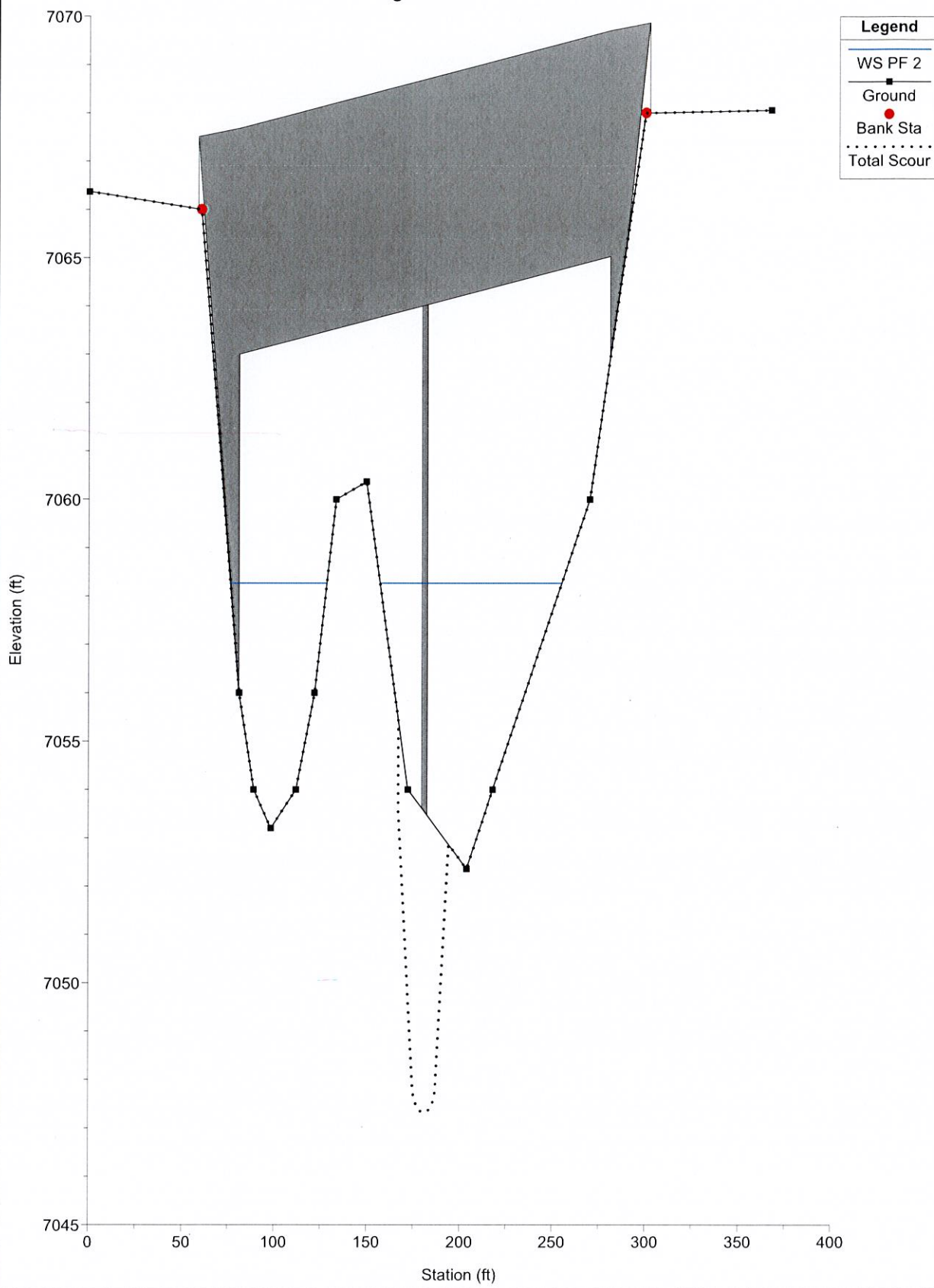
Input Data

Pier Shape:	Round nose
Pier Width (ft):	3.00
Grain Size D50 (mm):	0.60000
Depth Upstream (ft):	5.70
Velocity Upstream (ft/s):	7.01
K1 Nose Shape:	1.00
Pier Angle:	0.00
Pier Length (ft):	3.00
K2 Angle Coef:	1.00
K3 Bed Cond Coef:	1.10
Grain Size D90 (mm):	5.00000
K4 Armouring Coef:	1.00

Results

Scour Depth Ys (ft):	6.22
Froude #:	0.52
Equation:	CSU equation

Bridge Scour RS = 600



Cross Section Data - DEV-02

Exit Edit Options Plot Help

River: N. BEAVER Apply Data Plot Options Keep Prev XS Plots Clear Prev Plot Terrain (if avail)

Reach: REACH 1 River Sta.: 700 Plan: Plan 03 6/30/2021

Description Del Row Ins Row

Cross Section Coordinates	
Station	Elevation
1	7066.37
2	7066
3	7056
4	7054
5	7053.2
6	7054
7	7056
8	7060
9	7060.37
10	7054
11	7052.36

Downstream Reach Lengths	
LOB	Channel ROB
123.	102. 110.

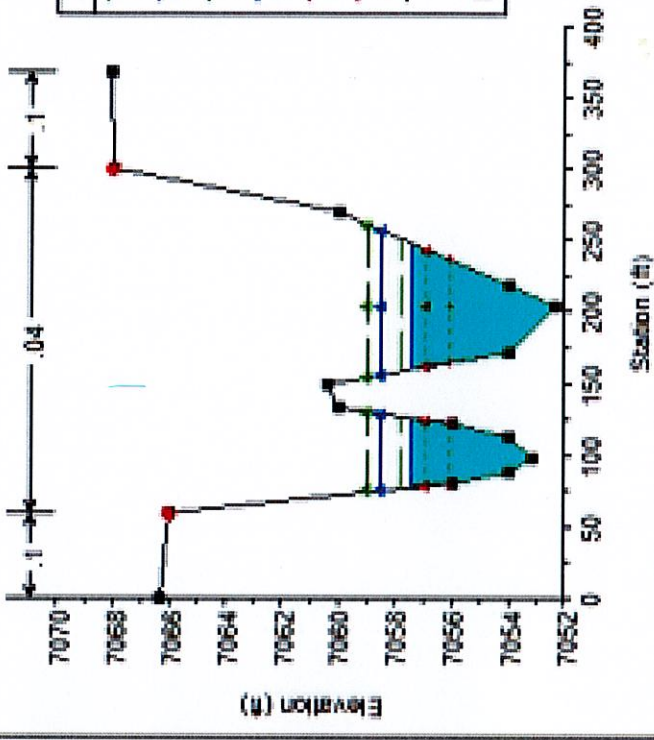
Manning's n Values	
LOB	Channel ROB
0.1	0.04 0.1

Main Channel Bank Stations	
Left Bank	Right Bank
60.23	300.

Cont/Exp Coefficient (Steady)	
Contraction	Expansion
0.3	0.3



Enter to move to next downstream river station location